

Closed Circuit Television (CCTV) Camera – Site Test

This test will confirm that the CCTV equipment at the site is fully operational, per manufacturer’s specifications, prior to network connectivity.

CCTV: General Information

Project Number: _____ Project Name: _____

Project Stationing: _____ Date of Test: _____

Device Name: _____ Manufacturer: _____

Serial #: _____ Model #: _____

Username (If Required): _____ Password (If Required): _____

Communication Method: _____ IP Address: _____

Subnet Mask: _____ Inspector: _____

CCTV: General Requirements

Requirement	Pass	Fail	Notes
Verify location of device installation is as per the plans. Structure offset from edge of travel lane: _____ Latitude: _____ Longitude: _____	<input type="checkbox"/>	<input type="checkbox"/>	
Verify all installed devices and equipment (including components inside of cabinets) match the approved shop drawings and catalog cuts.	<input type="checkbox"/>	<input type="checkbox"/>	

CCTV: Lowering System

Requirement	Pass	Fail	Notes
Verify the camera lowering system functions by completely lowering and raising the CCTV, using both powered lowering device and manual winch 3 times each.	<input type="checkbox"/>	<input type="checkbox"/>	
Verify that CCTV is stable and locked at the top of the CCTV Lowering System by visual inspection.	<input type="checkbox"/>	<input type="checkbox"/>	
Verify that network cable has proper strain relief within pole and is not being damaged by movement of pulleys and support cable.	<input type="checkbox"/>	<input type="checkbox"/>	

CCTV: AC Power – Device Specific

Requirement	Pass	Fail	Notes
Verify voltage in CCTV load center is within +/- 5% of 120 VAC or 240 VAC.	<input type="checkbox"/>	<input type="checkbox"/>	
Verify that lightning surge protection is installed at both ends of CCTV power over Ethernet cables.	<input type="checkbox"/>	<input type="checkbox"/>	
Verify that the device manufacturer's recommended power/communication cable is being used and is of adequate length.	<input type="checkbox"/>	<input type="checkbox"/>	
For documentation purposes, record the Ethernet Injector (POEI) power consumption from the AC Mains.	<i>Not a pass / fail test</i>		Record wattage:

CCTV: Operations

Requirement	Pass	Fail	Notes
Visually verify quality of video in day mode. The video will be full motion at the required resolution, without any noise interference or distortion.	<input type="checkbox"/>	<input type="checkbox"/>	
Verify the camera pans 360+ degrees to left and right.	<input type="checkbox"/>	<input type="checkbox"/>	
Verify the camera tilt range is from 20 degrees above horizon to 90 degrees below horizon.	<input type="checkbox"/>	<input type="checkbox"/>	
Verify the camera has 30x optical zoom and 12x digital zoom.	<input type="checkbox"/>	<input type="checkbox"/>	

CCTV: Operations

Requirement	Pass	Fail	Notes
Verify manual and auto focus capability.	<input type="checkbox"/>	<input type="checkbox"/>	
Verify auto iris capability.	<input type="checkbox"/>	<input type="checkbox"/>	
Verify manual iris operation by opening and closing to display the adjustment to light levels.	<input type="checkbox"/>	<input type="checkbox"/>	

Overall CCTV Site Test: Pass Fail

Inspector Name: _____ Organization: _____ Signature: _____

Witness Name: _____ Organization: _____ Signature: _____

Date: _____

CCTV Camera – Communications & Systems Test

This test will confirm that the installed equipment is fully operational utilizing New Hampshire’s Advanced Transportation Management System (ATMS) at the NHDOT TMC.

CCTV: General Information

Project Number: _____ Project Name: _____

Project Stationing: _____ Date of Test: _____

Device Name: _____ Manufacturer: _____

Serial #: _____ Model #: _____

Username (If Required): _____ Password (If Required): _____

Communication Method: _____ IP Address: _____

Subnet Mask: _____ Inspector: _____

CCTV: Prerequisites*

Requirement	Pass	Fail	Notes
Contractor has coordinated with the TMC, and has established connectivity to the camera from the TMC.	<input type="checkbox"/>	<input type="checkbox"/>	
Contractor has verified all device components are configured with supplied IP's, VLANs, configurations, and interface login credentials, and has properly labeled all ports in device web interfaces. (ITS Spec 3.5)	<input type="checkbox"/>	<input type="checkbox"/>	
Contractor must be ready, with all necessary parties and preparation, to start the testing at the designated start time.	<input type="checkbox"/>	<input type="checkbox"/>	

*-Failure to meet any of the prerequisite requirements shall be grounds for immediate testing termination

CCTV: Communications			
Requirement	Pass	Fail	Notes
If wireless communications is utilized, document the signal strength. _____dB	<input type="checkbox"/>	<input type="checkbox"/>	
Verify communications to the CCTV (Ping).	<input type="checkbox"/>	<input type="checkbox"/>	
Verify device status appears on New Hampshire's ATMS.	<input type="checkbox"/>	<input type="checkbox"/>	
Generate a manual communications failure at the CCTV camera cabinet, and verify both ATMS and manufacturer software display the error. Verify the CCTV responds after communications have been restored.	<input type="checkbox"/>	<input type="checkbox"/>	
Verify ATMS regains communication to the CCTV after power has been disconnected in the field for 2 minutes then restored.	<input type="checkbox"/>	<input type="checkbox"/>	

CCTV: Central Control			
Requirement	Pass	Fail	Notes
Perform a full diagnostic scan in ATMS and manufacturer software, and confirm no errors shown.	<input type="checkbox"/>	<input type="checkbox"/>	
Disconnect power to the device, and verify a power supply error is displayed in ATMS and/or manufacturer software. Verify the error no longer exists after power is restored.	<input type="checkbox"/>	<input type="checkbox"/>	
Open the cabinet door and verify an intrusion alarm is displayed in ATMS and/or manufacturer software.	<input type="checkbox"/>	<input type="checkbox"/>	
Visually verify quality of video in day mode. The video will be full motion at the required resolution, without any noise interference or distortion.	<input type="checkbox"/>	<input type="checkbox"/>	
Pan Camera 360+ degrees to left and right.	<input type="checkbox"/>	<input type="checkbox"/>	
Tilt camera down through full range of motion and then back to original position.	<input type="checkbox"/>	<input type="checkbox"/>	
Zoom camera in fully to selected location within the field of view then zoom completely out.	<input type="checkbox"/>	<input type="checkbox"/>	
Verify manual and auto focus capability.	<input type="checkbox"/>	<input type="checkbox"/>	
Verify auto iris capability.	<input type="checkbox"/>	<input type="checkbox"/>	

CCTV: Central Control			
Requirement	Pass	Fail	Notes
Verify manual iris operation by opening and closing the iris.	<input type="checkbox"/>	<input type="checkbox"/>	
Nighttime - Pan Camera 360+ degrees to left and right.	<input type="checkbox"/>	<input type="checkbox"/>	
Nighttime - Tilt camera down through full range of motion and then back to original position.	<input type="checkbox"/>	<input type="checkbox"/>	
Nighttime - Zoom camera in fully to selected location within the field of view then zoom completely out.	<input type="checkbox"/>	<input type="checkbox"/>	
Nighttime - Open and close the iris to display the adjustment to light levels and transition from color to black and white mode.	<input type="checkbox"/>	<input type="checkbox"/>	
Nighttime - Visually verify quality of video during the above nighttime tests.	<input type="checkbox"/>	<input type="checkbox"/>	
Log into all site device component web interfaces. Verify no errors are reported, and web interfaces display all information needed for remote monitoring of device status. Verify all ports are properly addressed and labeled in interfaces.	<input type="checkbox"/>	<input type="checkbox"/>	

Overall CCTV Systems Test: Pass Fail

Inspector Name: _____ Organization: _____ Signature: _____

Witness Name: _____ Organization: _____ Signature: _____

Date: _____